

OAKSON, INC.

Drip Dispersal & Water Reuse....Solutions For All Sites

Rainwater Capture Systems and
Perc-Rite Drip Dispersal Systems

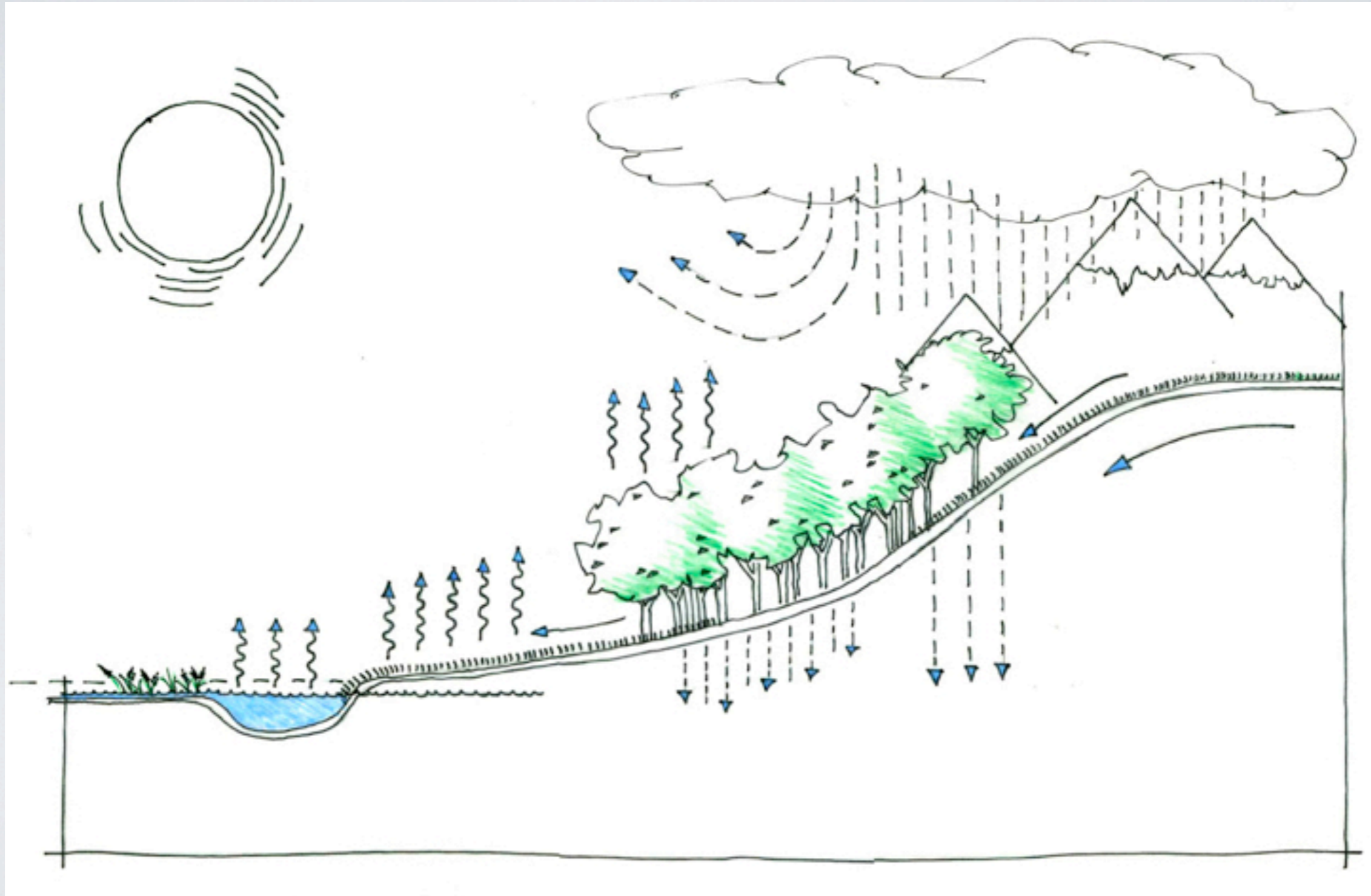
Who We Are

A team of professionals working to protect our environment and make your projects successful with innovative products that sustain our water resources

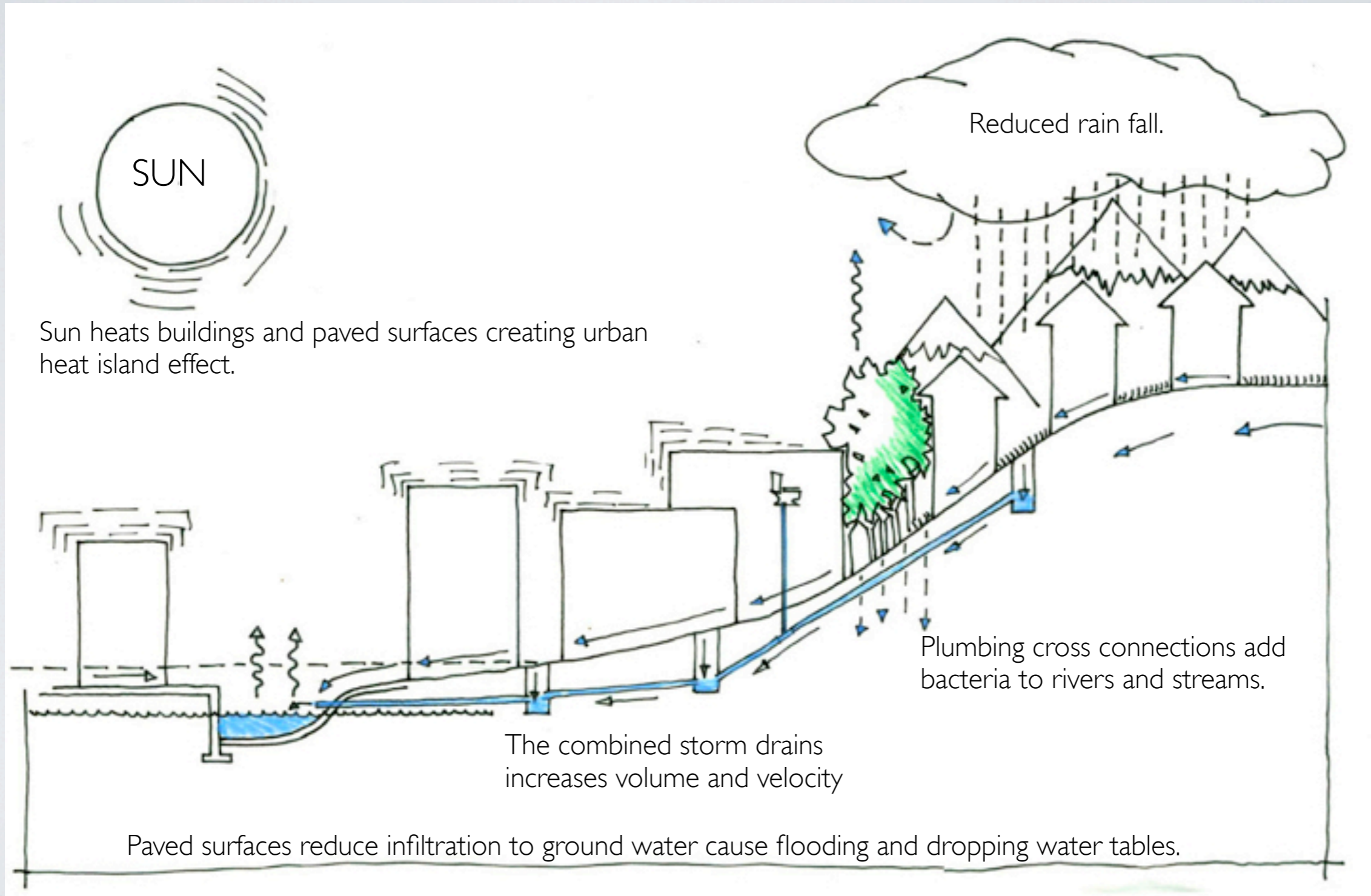
Stormwater management

Why would a home owner be concerned with stormwater management?

Predevelopment hydrologic cycle



Post-development hydrologic cycle





<http://rainwaterharvesting.wordpress.com/page/2/>

Why do we need to manage stormwater?

A 2002 report by American Rivers, Natural Resources Defense Council and Smart Growth America titled “Paving Our Way to Water Shortages” estimates the billions of gallons of groundwater recharge loss, annually, from 18 large cities in the United States. The model indicated that some cities such as Boston lose 44 -102 billion gallons or 135,000 - 313,000 acre-feet of recharge annually.

Sustainable Design Initiatives



Project Checklist

Sustainable Sites

14 Possible Points

<input checked="" type="checkbox"/>	Prereq 1	Erosion & Sedimentation Control	Required	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1 Site Selection	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2 Urban Redevelopment	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3 Brownfield Redevelopment	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.1 Alternative Transportation , Public Transportation Access	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.2 Alternative Transportation , Bicycle Storage & Changing Rooms	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.3 Alternative Transportation , Alternative Fuel Vehicles	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4.4 Alternative Transportation , Parking Capacity	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 5.1 Reduced Site Disturbance , Protect or Restore Open Space	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 5.2 Reduced Site Disturbance , Development Footprint	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 6.1 Stormwater Management , Rate and Quantity	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 6.2 Stormwater Management , Treatment	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 7.1 Heat Island Effect , Non-Roof	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 7.2 Heat Island Effect , Roof	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 8 Light Pollution Reduction	1

Water Efficiency

5 Possible Points

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.1 Water Efficient Landscaping , Reduce by 50%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1.2 Water Efficient Landscaping , No Potable Use or No Irrigation	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2 Innovative Wastewater Technologies	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3.1 Water Use Reduction , 20% Reduction	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3.2 Water Use Reduction , 30% Reduction	1

Energy & Atmosphere

17 Possible Points

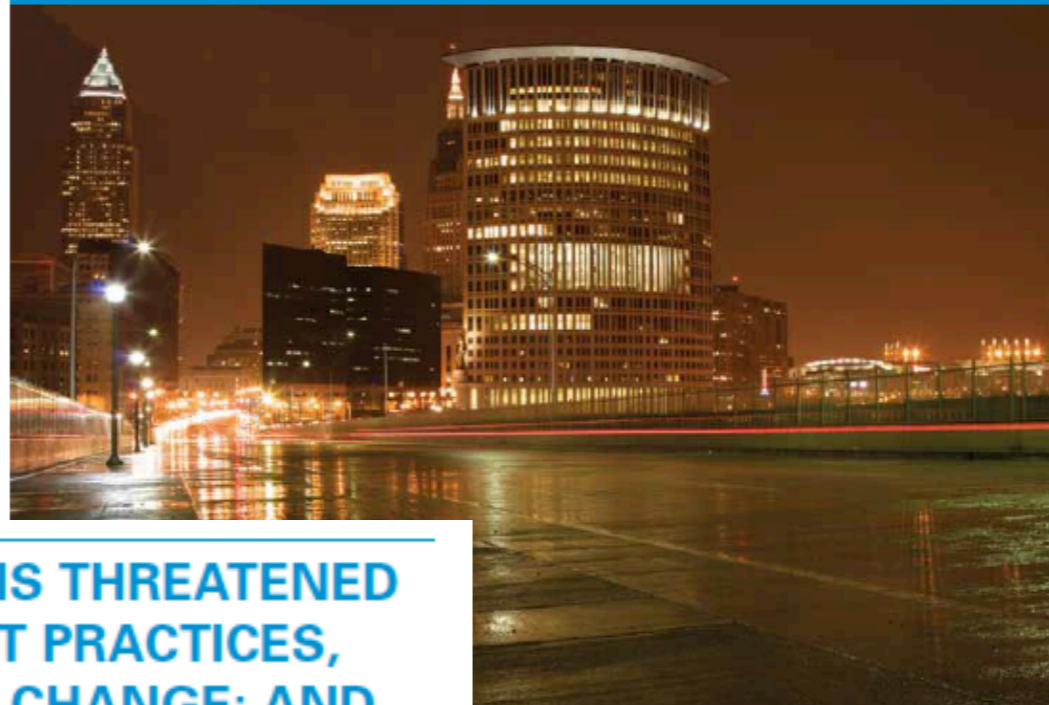
<input checked="" type="checkbox"/>	Prereq 1	Fundamental Building Systems Commissioning	Required	
<input checked="" type="checkbox"/>	Prereq 2	Minimum Energy Performance	Required	
<input checked="" type="checkbox"/>	Prereq 3	CFC Reduction in HVAC&R Equipment	Required	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 1 Optimize Energy Performance	1-10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2.1 Renewable Energy , 5%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2.2 Renewable Energy , 10%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 2.3 Renewable Energy , 20%	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 3 Additional Commissioning	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 4 Ozone Depletion	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 5 Measurement & Verification	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Credit 6 Green Power	1

http://www.usgbc.org/Docs/LEEDdocs/LEED_RS_v2-1.pdf

NRDC Report

Capturing Rainwater from Rooftops: An Efficient Water Resource Management Strategy that Increases Supply and Reduces Pollution

NOVEMBER 2011



A SAFE, SUFFICIENT WATER SUPPLY IS THREATENED BY OUTDATED WATER MANAGEMENT PRACTICES, WASTEFUL USE & PRICING; CLIMATE CHANGE; AND POLLUTION FROM STORMWATER RUNOFF



Authors:

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Christopher Kloss, *Low Impact Development Center*
Robb Lukes, *Low Impact Development Center*

Project Design and Development:

Jon Devine
David S. Beckman
Natural Resources Defense Council

Uses



Possible uses for captured rainwater

Rainwater Capture & Reuse benefits

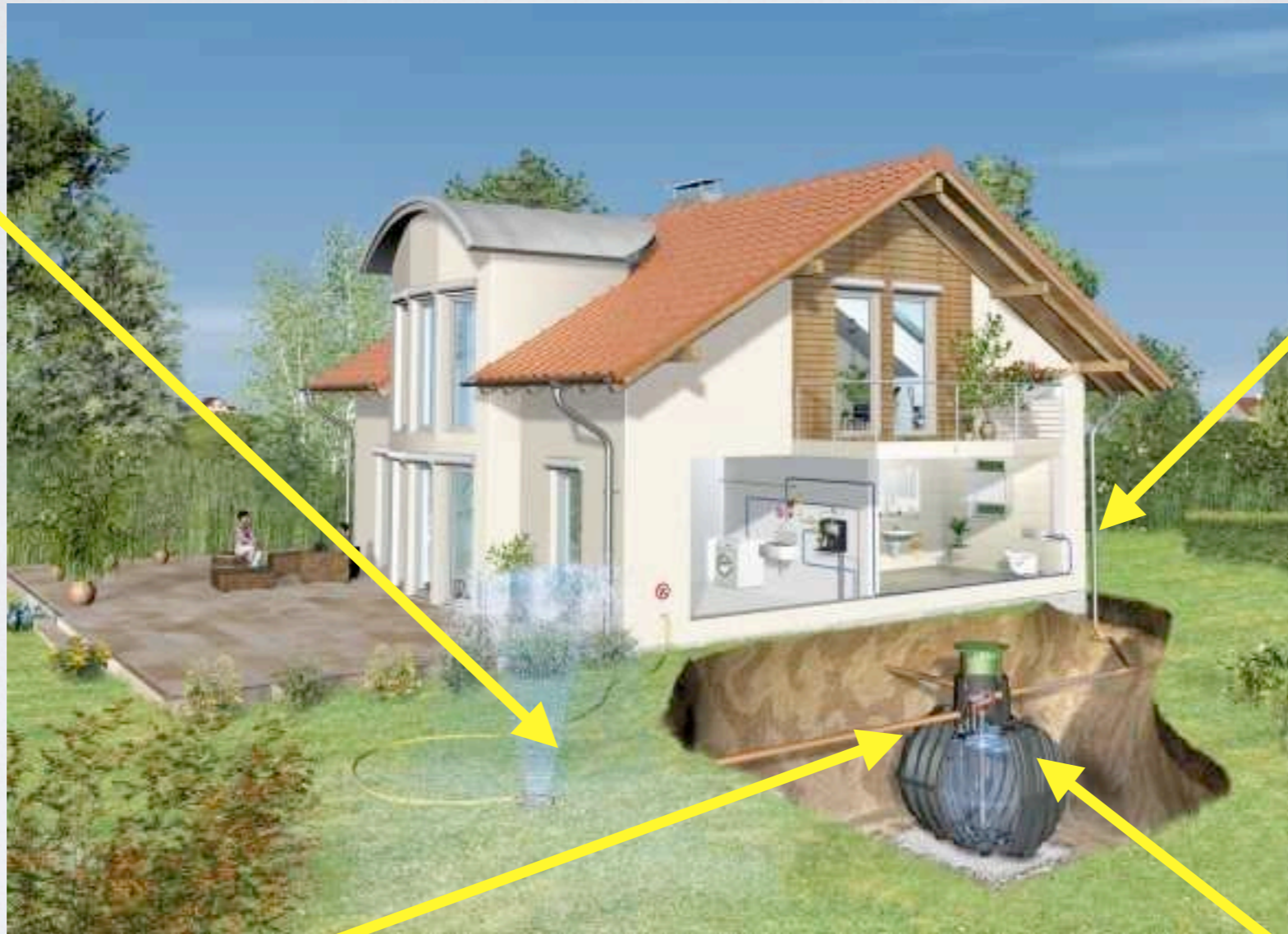
- Easy to install
- Scalable
- Little-to-no maintenance
- Convenient access during a water ban
- Various applications
- Saves money and resources
- Environmentally friendly



Rain Capture & Reuse system

Step Four:
Using the Water

Step One:
Collection & Filtration



Step Three:
Tank Cleaning/Overflow

Step Two:
Filling the Tank

Collection & filtration



1" rainfall = 623 gallons for 1000 sq. ft. roof

Avg. 44" rainfall/year = 27,412 gallons/1000 sq ft

OAKSON, INC.

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Oakson, Inc. a local company, is a major supplier of rainwater capture systems. Our experience in the design and installation of these systems is unsurpassed

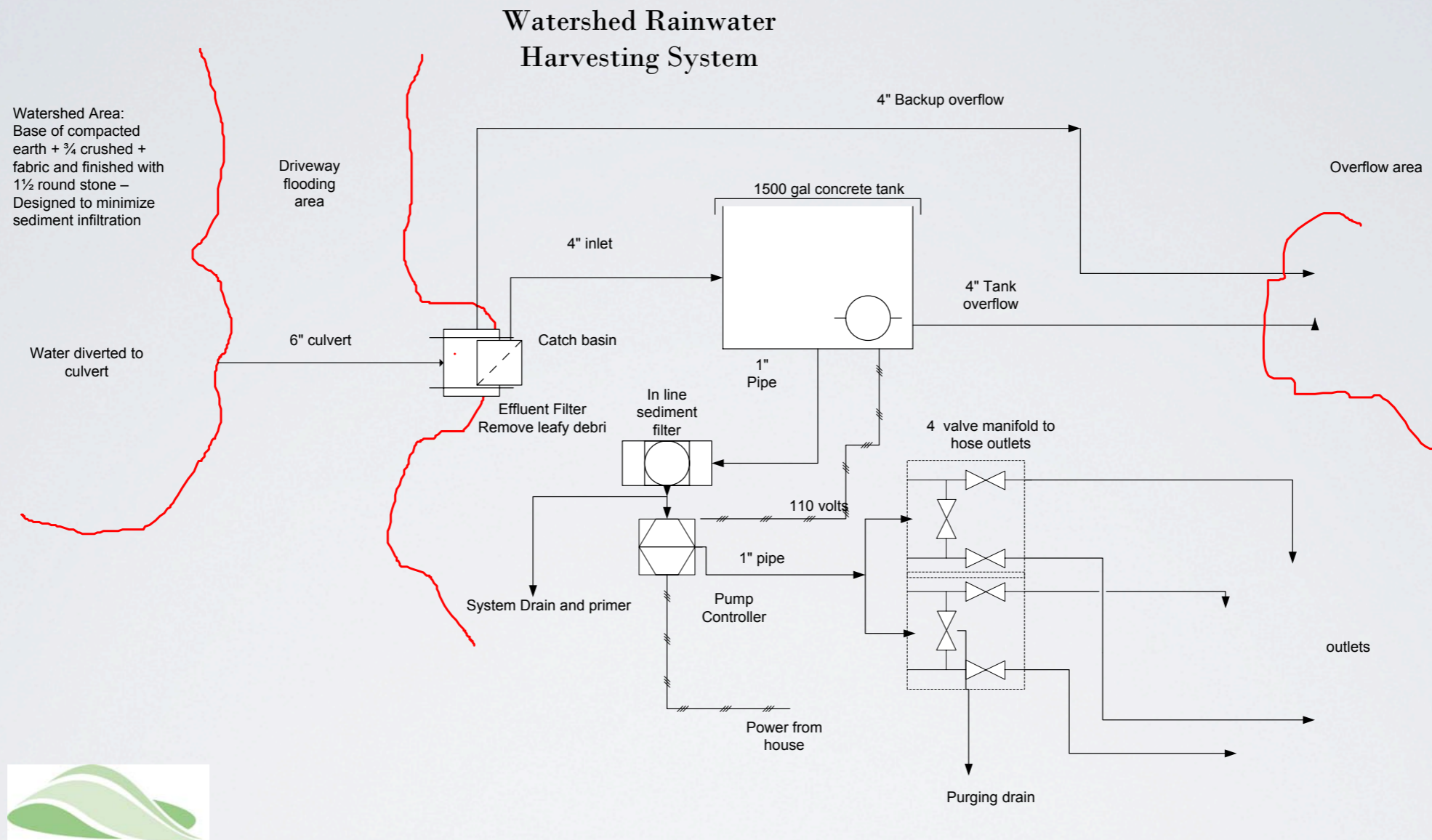
Display tank



Display tank



Customizable



ARK LANDWORKS, LLC

Geoff Thomas 978-590-0908

Storm water draining from impervious surface

Installation support

Serving Cape Ann **Gloucester Daily Times**

NEW ENGLAND NEWSPAPER ASSOCIATION'S NEWSPAPER OF THE YEAR

WEDNESDAY, October 13, 2010



COURTESY PHOTO

A large storage tank was recently installed at the Rockport Community House to harvest rainwater for use in irrigation.

Reeling in the rainwater

Irrigation system to sustain Community House grounds

BY JONATHAN L'ECUYER
STAFF WRITER

ROCKPORT — The Community House will soon harvest rainwater for use in watering its newly-landscaped grounds, local officials say.

Through a donation from Oakson Inc., caretakers will be able to keep the property adequately hydrated with rainwater even after the rain clouds have moved offshore.

Terry Duffy, a member of Rockport's Board of Assessors, works for the Gloucester-based drip dispersal, water re-use, and wastewater product distributor as a landscape designer. He and Oakson, Inc. President Daniel Ottenheimer both live in Rockport and support sustainable living initiatives.

The pair decided to contribute to the town's \$2.2 million effort to rehabilitate the historic building and its grounds by donating the rainwater harvesting system — a \$5,000 value — along with their time and expertise.

Public Works Director Joe Parisi immediately got onboard with the idea and brought it to the DPW Board of Commissioners for final approval.

A series of downspouts emanating from the building's rear roof funnels rainwater to a system of pipes that collects it at ground level and ultimately carries the stormwater into an underground, 500-gallon, plastic tank, Duffy said.

While the water could be used for an underground irrigation or

Please see IRRIGATION, Page 8

OAKSON, INC.

877-OAKSON1 www.OaksonInc.com

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Installations



Used for both hand watering & automated irrigation

Installations



Installations



Installations

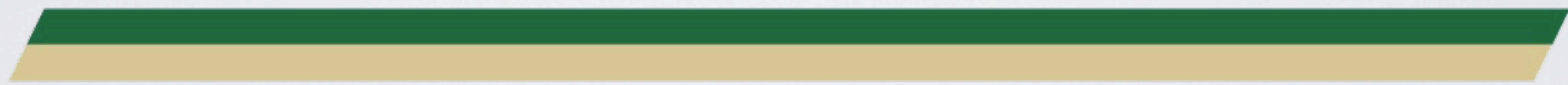


Customizable



Outside mounted controller with irrigation controller

OAKSON, INC.



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Questions?